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PATENT ABSTRACTS OF JAPAN

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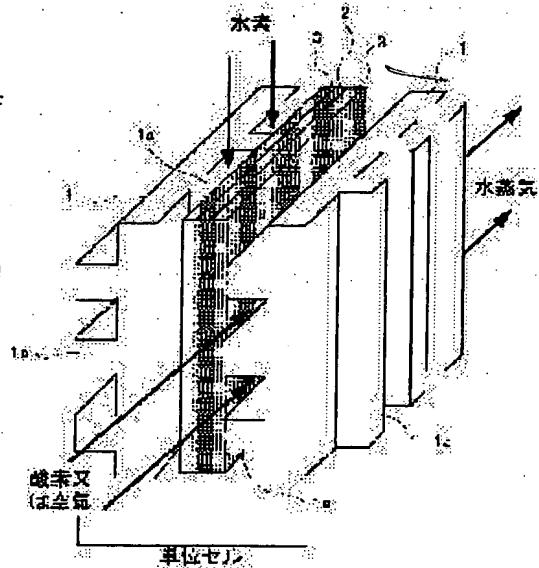
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(54) FUEL CELL SEPARATOR AND ITS PRODUCTION METHOD

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a fuel cell separator molded of a composition containing mainly graphite, an epoxy resin, a curing agent and an accelerator, while adding the 15 parts or less by mass of epoxy resin to the 100 parts by mass of graphite, and its production method.

SOLUTION: The need for mechanical machining after molding is eliminated, the conductivity and mechanical strength of a product is improved at a significant level, superior separateness and dimensional precision in molding are provided and higher performance, less proportion defectives and lower cost are given to the product.



LEGAL STATUS

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3. In the drawings, any words are not translated.

CLAIMS

[Claim(s)]

[Claim 1] The fuel cell separator characterized by adding an epoxy resin below 15 mass sections to the above-mentioned graphite 100 mass section in the fuel cell separator which comes to fabricate the constituent for fuel cell separators which uses a graphite, an epoxy resin, and a curing agent as a principal component.

[Claim 2] The fuel cell separator according to claim 1 using poly carbodiimide resin as a curing agent.

[Claim 3] The manufacture approach of the fuel cell separator characterized by pressing below the epoxy resin 15 mass section and below the curing agent 9 mass section using the mixture which carried out addition mixing to the graphite 100 mass section in the manufacture approach of the fuel cell separator which comes to fabricate the constituent for fuel cell separators which uses a graphite, an epoxy resin, and a curing agent as a principal component.

[Claim 4] The manufacture approach of the fuel cell separator characterized by injection molding below the epoxy resin 15 mass section and below the curing agent 9 mass section using the mixture which carried out addition mixing to the graphite 100 mass section in the manufacture approach of the fuel cell separator which comes to fabricate the constituent for fuel cell separators which uses a graphite, an epoxy resin, and a curing agent as a principal component.

[Claim 5] The manufacture approach of the fuel cell separator characterized by transfer-molding below the epoxy resin 15 mass section and below the curing agent 9 mass section using the mixture which carried out addition mixing to the graphite 100 mass section in the manufacture approach of the fuel cell separator which comes to fabricate the constituent for fuel cell separators which uses a graphite, an epoxy resin, and a curing agent as a principal component.

[Translation done.]
